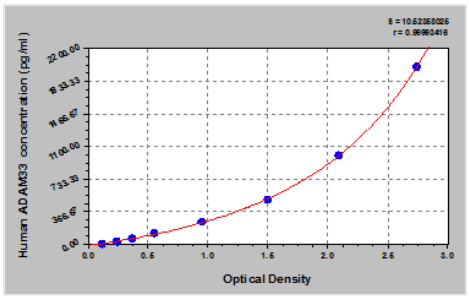
ADAM Metallopeptidase Domain 33 (ADAM33) ELISA Kit for Human

PRODUCT OVERVIEW

Product Name	ADAM metallopeptidase domain 33 (ADAM33), ELISA Kit
Full Product Name	Human A Disintegrin And Metalloprotease 33, ADAM33 ELISA Kit
Product Gene Name	ADAM33 elisa kit
Product Synonym Names	Human A Disintegrin And Metalloprotease 33; ADAM33 ELISA Kit; RP5-964F7.2; C20orf153; DJ964F7.1; DKFZp434K0521; FLJ35308; FLJ36751; MGC149823; MGC71889; a disintegrin and metalloprotease 33; a disintegrin and metalloproteinase domain 33; disintegrin and reprolys; ADAM metallopeptidase domain 33
Species Reactivity	Human
Assay Type	Sandwich
Detection Range	31.2 pg/ml-2000 pg/ml
Sensitivity	8 pg/ml
Specificity	This assay has high sensitivity and excellent specificity for detection of Human ADAM33. No significant cross-reactivity or interference between Human ADAM33 and analogues was observed.
Preparation and Storage	Unopened test kits should be stored at 2 to 8 degree C upon receipt. Please refer to pdf manual for further storage instructions.
Intra-assay Precision	Intra-assay Precision (Precision within an assay): CV% is less than 8% Three samples of known concentration were tested twenty times on one plate to assess. Inter-assay Precision (Precision between assays): CV% is less than 10% Three samples of known concentration were tested in twenty assays to assess.
Molecular Weight	87,739 Da
OMIM	607114
3D Structure	ModBase 3D Structure for Q9BZ11
Detection Wavelength	450 nm
Sample Volume	50-100ul
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for ADAM33 elisa kit	**Principle of the Assay:** This assay employs the quantitative sandwich enzyme immunoassay technique. Antibody specific for ADAM33 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any ADAM33 present is bound by the immobilized antibody. After removing anyunbound substances, a biotin-conjugated antibody specific for ADAM33 is added to the wells.After washing,avidin conjugated Horseradish Peroxidase (HRP) is added to the wells.Following a wash to remove any unbound avidin-enzyme reagent, a substrate solution is added tothe wells and color develops in proportion to the amount of ADAM33 bound in the initial step. The colordevelopment is stopped and the intensity of the color is measured.
Other Notes	Small volumes of ADAM33 elisa kit vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

Searchable Terms for ADAM33 purchase	MBS702130 is a ready-to-use microwell, strip plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the ADAM metallopeptidase domain 33 (ADAM33) ELISA Kit target analytes in biological samples. The concentration gradients of the kit standards or positive controls render a theoretical kit detection range in biological research samples containing ADAM33. The ELISA analytical biochemical technique of the MBS702130 kit is based on ADAM33 antibody-ADAM33 antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect ADAM33 antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, ADAM33. Appropriate sample types may include undiluted body fluids and/or tissue homogenates, secretions. Quality control assays assessing reproducibility identified the intra-assay CV (%) and inter-assay CV(%).



Typical Testing Data/Standard Curve (for reference only) of ADAM33 elisa kit

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for ADAM33. It may not necessarily be applicable to this product.

NCBI GI #	540344525
NCBI GeneID	80332
NCBI Accession #	NP_001269376.1
UniProt Primary Accession #	Q9BZ11
UniProt Secondary Accession #	Q5JT75; Q5JT76; Q8N0W6; A0A1K6
UniProt Related Accession #	Q9BZ11
GenBank Nucleotide #	NM_001282447.1
NCBI Official Full Name	disintegrin and metalloproteinase domain-containing protein 33 isoform gamma preproprotein
NCBI Official Synonym Full Names	ADAM metallopeptidase domain 33
NCBI Official Symbol	ADAM33
NCBI Official Synonym Symbols	C20orf153; DJ964F7.1
UniProt Protein Name	Disintegrin and metalloproteinase domain-containing protein 33
Protein Family	Disintegrin and metalloproteinase domain-containing protein
UniProt Gene Name	ADAM33
UniProt Synonym Gene Names	C20orf153; UNQ873/PRO1891; ADAM 33
UniProt Entry Name	ADA33_HUMAN
NCBI Protein Information	disintegrin and metalloproteinase domain-containing protein 33; ADAM 33; a disintegrin and metalloprotease 33; a disintegrin and metalloproteinase domain 33; disintegrin and reprolysin metalloproteinase family protein
NCBI Summary for ADAM33	This gene encodes a member of the ADAM (a disintegrin and metalloprotease domain) family. Members of this family are membrane-anchored proteins structurally related to snake venom disintegrins, and have been implicated in a variety of biological processes involving cell-cell and cell-matrix interactions, including fertilization, muscle development, and neurogenesis. This protein is a type I transmembrane protein implicated in asthma and bronchial hyperresponsiveness. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Sep 2013]

UniProt Comments for ADAM33	ADAM33: Genetic variations in ADAM33 are associated with susceptibility to asthma (ASTHMA). The most common chronic disease affecting children and young adults. It is a complex genetic disorder with a heterogeneous phenotype, largely attributed to the interactions among many genes and between these genes and the environment. It is characterized by recurrent attacks of paroxysmal dyspnea, with weezing due to spasmodic contraction of the bronchi. 3 isoforms of the human protein are produced by alternative splicing. Protein type: EC 3.4.24.-; Protease; Motility/polarity/chemotaxis; Membrane protein, integral Chromosomal Location of Human Ortholog: 20p13 Cellular Component: integral to membrane Molecular Function: zinc ion binding; metalloendopeptidase activity Biological Process: proteolysis
Research Articles on ADAM33	**1.** Seven single nucleotide polymorphisms (SNPs) in ADAM33 were associated with chronic obstructive pulmonary disease in the Mongolian population of China. Even after Bonferroni correction, SNPs S2, S1, Q-1 and F+1 remained significant.
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